

Title (en)

MOTOR-INTEGRATED FAN, AND VERTICAL TAKEOFF AND LANDING CRAFT

Title (de)

MOTORINTEGRIERTES GEBLÄSE UND VERTIKAL STARTENDES UND LANDENDEN FLUGZEUG

Title (fr)

VENTILATEUR INTÉGRÉ À UN MOTEUR, ET ENGIN DE DÉCOLLAGE ET D'ATERRISSAGE VERTICAL

Publication

**EP 3878737 A1 20210915 (EN)**

Application

**EP 19897398 A 20191210**

Priority

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- JP 2019048227 W 20191210

Abstract (en)

The present invention provides a motor-integrated fan that suctions air through a suction port and blows out the suctioned air through a blow-out port, wherein: the motor-integrated fan comprises a shaft part provided in the center of a rotation shaft, a rotation part 12 that rotates about the shaft part, a duct 13 provided to the outer circumference of the shaft part. A motor 14 that causes the rotation part 12 to rotate, a coil 46 that emits heat due to the operation of the motor 14, and a cooling unit 17 that cools the coil 46 using cooling air; the cooling unit 17 includes an air intake port 51 that takes the cooling air in, an air discharge port 52 that discharges the cooling air, and a cooling flow path 53 extending from the air intake port 51 via the coil 46 to the air discharge port 52; and the air discharge port 52 is provided at a position at which the pressure is more negative than at the air intake port 51.

IPC 8 full level

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CPC (source: EP US)

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Cited by

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